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## WHAT IS CLAIMED IS:

 A print control apparatus which can communicate with a host computer and an image output apparatus, comprising:

obtaining means for obtaining system information from said host computer;

data generating means for generating second data which can be outputted from said image output apparatus from first data which is inputted from said host computer;

first data compressing means for generating third data by performing a data compression based on a first compression format to said second data;

second data compressing means for generating fourth data by performing a data compression based on a second compression format different from said first compression format to said second data;

first output means for analyzing said system information which is obtained by said obtaining means and outputting said third or fourth data to said host computer;

first data decompressing means for generating

fifth data by performing a data decompression

corresponding to said first compression format to said

third data which is inputted from said host computer;

second data decompressing means for generating sixth data by performing a data decompression

corresponding to said second compression format to said fourth data which is inputted from said host computer; and

second output means for outputting said fifth or sixth data to said image output apparatus.

 An apparatus according to claim 1, wherein said first data is code data according to a page description language.

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3. An apparatus according to claim 1, wherein said second data is bit map data according to a dot format.

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4. An apparatus according to claim 1, wherein said first compression format which is used in said first data compressing means is a reversible compression format, and the decompression which is executed by said first data decompressing means is a decompression to data of a format opposite to said reversible compression format.

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5. An apparatus according to claim 1, wherein said first compression format which is used in said first data compressing means is a run length compression format, and the decompression which is executed by said first data decompressing means is a

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decompression to data of a format opposite to said run length compression format.

- 6. An apparatus according to claim 1, wherein said second compression format which is used in said second data compressing means is an irreversible compression format, and the decompression which is executed by said second data decompressing means is a decompression to data of a format opposite to said irreversible compression format.
- 7. An apparatus according to claim 1, wherein said second compression format which is used in said second data compressing means is a JPEG compression format, and the decompression which is executed by said second data decompressing means is a decompression to data of a format opposite to said JPEG compression format.
- 8. An apparatus according to claim 1, wherein said system information which is obtained by said obtaining means is a capacity of a memory which said host computer has.
- 9. An apparatus according to claim 1, wherein said system information which is obtained by said obtaining means is a free capacity in a memory which

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said host computer has.

- 10. An apparatus according to claim 1, wherein said third or fourth data which is outputted by said first output means is stored in a host memory or a hard disk which is built in said host computer.
- 11. An apparatus according to claim 1, wherein when said first data is color image data, said first and second data compressing means generate compression data every color component.
  - 12. An apparatus according to claim 1, wherein said print control apparatus and said host computer are connected by a predetermined bus interface.
  - 13. A print control method in a print control apparatus which can communicate with a host computer and an image output apparatus, comprising:
  - an obtaining step of obtaining system information from said host computer;
    - a data generating step of generating second data which can be outputted from said image output apparatus from first data which is inputted from said host computer;
    - a first data compressing step of generating third data by performing a data compression based on a first

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compression format to said second data;

a second data compressing step of generating fourth data by performing a data compression based on a second compression format different from said first compression format to said second data;

a first output step of analyzing said system information which is obtained by said obtaining step and outputting said third or fourth data to said host computer;

a first data decompressing step of generating

fifth data by performing a data decompression

corresponding to said first compression format to said

third data which is inputted from said host computer;

a second data decompressing step of generating sixth data by performing a data decompression corresponding to said second compression format to said fourth data which is inputted from said host computer; and

a second output step of outputting said fifth or 20 sixth data to said image output apparatus.

14. A method according to claim 13, wherein said first data is code data according to a page description language.

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15. A method according to claim 13, wherein said second data is bit map data according to a dot format.

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- 16. A method according to claim 13, wherein said first compression format which is used in said first data compressing step is a reversible compression format, and the decompression which is executed in said first data decompressing step is a decompression to data of a format opposite to said reversible compression format.
- 17. A method according to claim 13, wherein said

  10 first compression format which is used in said first

  data compressing step is a run length compression

  format, and the decompression which is executed in said

  first data decompressing step is a decompression to

  data of a format opposite to said run length

  compression format.
  - 18. A method according to claim 13, wherein said second compression format which is used in said second data compressing step is an irreversible compression format, and the decompression which is executed in said second data decompressing step is a decompression to data of a format opposite to said irreversible compression format.
- 19. A method according to claim 13, wherein said second compression format which is used in said second data compressing step is a JPEG compression format, and

the decompression which is executed in said second data decompressing step is a decompression to data of a format opposite to said JPEG compression format.

20. A method according to claim 13, wherein said system information which is obtained by said obtaining step is a capacity of a memory which said host computer has.

21. A method according to claim 13, wherein said system information which is obtained by said obtaining step is a free capacity in a memory which said host computer has.

15 22. A method according to claim 13, wherein said third or fourth data which is outputted by said first output step is stored in a host memory or a hard disk which is built in said host computer.

23. A computer-readable memory medium which records a program for allowing a print control apparatus which can communicate with a host computer and an image output apparatus to execute said program, wherein said program comprises:

an obtaining step of obtaining system information from said host computer;

a data generating step of generating second data

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which can be outputted from said image output apparatus from first data which is inputted from said host computer;

a first data compressing step of generating third data by performing a data compression based on a first compression format to said second data;

a second data compressing step of generating fourth data by performing a data compression based on a second compression format different from said first compression format to said second data;

a first output step of analyzing said system information which is obtained by said obtaining step and outputting said third or fourth data to said host computer;

a first data decompressing step of generating

fifth data by performing a data decompression

corresponding to said first compression format to said

third data which is inputted from said host computer;

a second data decompressing step of generating sixth data by performing a data decompression corresponding to said second compression format to said fourth data which is inputted from said host computer; and

a second output step of outputting said fifth or sixth data to said image output apparatus.

24. A medium according to claim 23, wherein said

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first data is code data according to a page description language.

- 25. A medium according to claim 23, wherein said5 second data is bit map data according to a dot format.
  - 26. A medium according to claim 23, wherein said first compression format which is used in said first data compressing step is a reversible compression format, and the decompression which is executed in said first data decompressing step is a decompression to data of a format opposite to said reversible compression format.
- 27. A medium according to claim 23, wherein said first compression format which is used in said first data compressing step is a run length compression format, and the decompression which is executed in said first data decompressing step is a decompression to data of a format opposite to said run length compression format.
  - 28. A medium according to claim 23, wherein said second compression format which is used in said second data compressing step is an irreversible compression format, and the decompression which is executed in said second data decompressing step is a decompression to

data of a format opposite to said irreversible compression format.

29. A medium according to claim 23, wherein said second compression format which is used in said second data compressing step is a JPEG compression format, and the decompression which is executed in said second data decompressing step is a decompression to data of a format opposite to said JPEG compression format.

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30. A medium according to claim 23, wherein said system information which is obtained by said obtaining step is a capacity of a memory which said host computer has.

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31. A medium according to claim 23, wherein said system information which is obtained by said obtaining step is a free capacity in a memory which said host computer has.

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32. A medium according to claim 23, wherein said third or fourth data which is outputted by said first output step is stored in a host memory or a hard disk which is built in said host computer.

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33. A print control apparatus which can communicate with a host computer and a printing

apparatus, comprising:

data generating means for generating bit map data which can be outputted from said printing apparatus from print data which is inputted from said host computer;

data compressing means for selecting one of a plurality of compression formats for said bit map data and generating compression data by performing a data compression based on said selected compression format;

first output means for outputting the compression data generated by said data compressing means to said host computer;

data decompressing means for generating bit map data by performing a data decompression to said compression data which is inputted from said host computer;

second output means for outputting the bit map data generated by said data decompressing means to said printing apparatus; and

20 control means for selecting the compression format in said data compressing means on the basis of information obtained from said host computer.

34. An apparatus according to claim 33, wherein 25 said control means selects the compression format in said data compressing means on the basis of a memory capacity of said host computer obtained from said host

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computer.

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35. A print control system having a host computer and a print control apparatus, wherein said print control apparatus comprises:

connecting means for connecting a printing apparatus;

data generating means for generating bit map data which can be outputted from said printing apparatus from print data which is inputted from said host computer;

data compressing means for selecting one of a plurality of compression formats for said bit map data and generating compression data by performing a data compression based on said selected compression format;

first output means for outputting the compression data generated by said data compressing means to said host computer;

data decompressing means for generating bit map data by performing a data decompression to said compression data which is inputted from said host computer;

second output means for outputting the bit map data generated by said data decompressing means to said printing apparatus; and

control means for selecting the compression format in said data compressing means on the basis of

information obtained from said host computer.

36. A system according to claim 35, wherein said print data is data received by said host computer from another apparatus through a network.